

Safety Data Sheet

Product Identifier: Myribond® DX

SDS ID: M-005

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

Myribond® DX

Chemical Family

Unsaturated Polyester

Product Use

Industrial, Professional, Consumer Cleaning; Laboratory use; Formulation stage

Restrictions on Use

For Research and Development Only

Details of the supplier of the safety data sheet

Myriant Corporation

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Woburn, MA 01801

Telephone No : +1 617-657-5200

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Emergency Phone No : CHEMTREC: 800-424-9300

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Not classified as hazardous

GHS Label Elements

Symbol(s)

None needed according to classification criteria

Signal Word

None needed according to classification criteria

Hazard Statement(s)

None needed according to classification criteria

Precautionary Statement(s)

Prevention

None needed according to classification criteria

Response

None needed according to classification criteria

Storage

None needed according to classification criteria

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations

Other Hazards

No additional information available.

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Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component	Percent
Trade secret	Unsaturated polyester	>= 99.5

Section 4 - FIRST AID MEASURES

Description of Necessary Measures

Get medical advice/attention if you feel unwell.

Inhalation

If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.

Skin

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get immediate medical attention. Thoroughly clean and dry contaminated clothing before reuse.

Eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion

Get medical attention, if needed.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

Most Important Symptoms/Effects

Acute

No information on significant adverse effects.

Delayed

No information on significant adverse effects.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Use carbon dioxide, regular dry chemical, regular foam or water.

Unsuitable Extinguishing Media

None known.

Special Hazards Arising from the Chemical

Negligible fire and explosion hazard in bulk form.

Hazardous Combustion Products

Oxides of carbon, low molecular weight hydrocarbons

Advice for firefighters

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

Fire Fighting Measures

Move container from fire area if it can be done without risk. Keep unnecessary people away, isolate hazard area and deny entry. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

Section 6 - ACCIDENTAL RELEASE MEASURES**Personal Precautions, Protective Equipment and Emergency Procedures**

Keep unnecessary people away, isolate hazard area and deny entry. Collect spillage. Avoid release to the environment. Only personnel trained for the hazards of this material should perform clean up and disposal.

Methods and Materials for Containment and Cleaning Up

Keep unnecessary people away, isolate hazard area and deny entry. Avoid contact with eyes, skin and clothing. Only personnel trained for the hazards of this material should perform clean up and disposal. Collect spilled material using mechanical equipment.

Environmental Precautions

Collect spillage. Avoid release to the environment. In case of spillage, stop the flow of material and block any potential routes to water systems. Keep out of water supplies and sewers.

Section 7 - HANDLING AND STORAGE**Precautions for Safe Handling**

Do not handle until all safety precautions have been read and understood. Keep away from all ignition sources. Avoid contact with skin and eyes. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Always wear recommended personal protective equipment. Wear personal protective clothing and equipment, see Section 8.

Conditions for Safe Storage, Including any Incompatibilities

None needed according to classification criteria

Store in a cool, dry place. Store in a well-ventilated area. Keep separated from incompatible substances. Keep container tightly closed. Empty containers may contain product residue. Store and handle in accordance with all current regulations and standards.

Incompatible Materials

oxidizing materials

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**Component Exposure Limits**

ACGIH, NIOSH, EU, OSHA (US) and Mexico have not developed exposure limits for any of this product's components

Biological limit value

There are no biological limit values for any of this product's components.

Engineering Controls

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment**Eye/face protection**

Wear splash resistant safety goggles.

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Skin Protection

Wear appropriate work clothing.

Respiratory Protection

A NIOSH approved air-purifying respirator with an appropriate cartridge or canister may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Glove Recommendations

Wear appropriate chemical resistant gloves.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless, viscous liquid	Physical State	liquid
Odor	slight odor	Color	colorless
Odor Threshold	Not available	pH	Not available
Melting Point	Not determined	Boiling Point	Not determined
Freezing point	Not determined	Evaporation Rate	Not available
Boiling Point Range	Not available	Flammability (solid, gas)	Not applicable
Autoignition	Not determined	Flash Point	Not determined
Lower Explosive Limit	Non-explosive	Decomposition	Not available
Upper Explosive Limit	Non-explosive	Vapor Pressure	Not determined
Vapor Density (air=1)	Not available	Specific Gravity (water=1)	Not determined
Water Solubility	284 mg/L (23 °C, pH 7)	Partition coefficient: n-octanol/water (Log Pow)	1.60 (23 °C)
Viscosity	112,000 mPa/s (23 °C)	Solubility (Other)	Not available
Density	1.222 g/cm ³ at 23 °C	Log KOW	Not determined
Physical Form	viscous liquid	Molecular Formula	Proprietary
OSHA Flammability Class	Not flammable		

Other Information

No additional information available.

Section 10 - STABILITY AND REACTIVITY

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

Incompatible Materials

oxidizing materials

Hazardous decomposition products

Oxides of carbon, low molecular weight hydrocarbons

Section 11 - TOXICOLOGICAL INFORMATION**Information on Likely Routes of Exposure****Inhalation**

No information on significant adverse effects.

Skin Contact

No information on significant adverse effects.

Eye Contact

No information on significant adverse effects.

Ingestion

No information on significant adverse effects.

Acute and Chronic Toxicity**Component Analysis - LD50/LC50**

Not available. Not expected to be toxic.

Immediate Effects

No information on significant adverse effects.

Delayed Effects

No information on significant adverse effects.

Irritation/Corrosivity Data

Not expected to be irritating to the eyes and/or skin.

Respiratory Sensitization

No data available.

Dermal Sensitization

Not available – expected to be non-sensitizing.

Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA
Not classified.

Germ Cell Mutagenicity

Not classified.

Tumorigenic Data

No data available

Reproductive Toxicity

Not classified.

Specific Target Organ Toxicity - Single Exposure

No target organs identified.

Specific Target Organ Toxicity - Repeated Exposure

No target organs identified.

Aspiration hazard

No data available.

Medical Conditions Aggravated by Exposure

No data available.

Additional Data

No additional information available.

Section 12 - ECOLOGICAL INFORMATION**Ecotoxicity**

Avoid release to the environment.

Component Analysis - Aquatic Toxicity (Estimated based on similar molecules)

Not available. Not expected to be toxic.

Persistence and Degradability

Expected to be Readily biodegradable.

Bioaccumulative Potential

low potential to bioaccumulate

Mobility

No information available for the product.

Other Toxicity

No additional information available.

Section 13 - DISPOSAL CONSIDERATIONS**Disposal Methods**

Dispose in accordance with all applicable regulations. Regulations vary. Consult local authorities before disposal.

Disposal of Contaminated Packaging

No information available for the product.

Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components.

Section 14 - TRANSPORT INFORMATION**US DOT Information:**

UN/NA #: Not regulated for transport

IATA Information:

UN#: Not regulated for transport

IMDG Information:

UN#: Not regulated for transport

TDG Information:

UN#: Not regulated for transport

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Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations

None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: No **Chronic Health:** No **Fire:** No **Pressure:** No **Reactivity:** No

U.S. State Regulations

None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA

Not listed under California Proposition 65

Canadian WHMIS Ingredient Disclosure List (IDL)

The components of this product are either not listed on the IDL or are present below the threshold limit listed on the IDL.

Component Analysis - Inventory

Trade Secret (Trade Secret)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX	TW
No	No	No	No	No	No	No	No	No	No	No	No	

Section 16 - OTHER INFORMATION

HMIS Rating

Health: 0 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

NFPA Ratings

Health: 0 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Summary of Changes

N/A - New product SDS

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program;

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NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

Other Information

Disclaimer:

Reasonable care has been taken in the preparation of this information; however, the manufacturer makes no warranty whatsoever including the warranty of merchantability, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental, consequential, or other such damages resulting from its use or misuse.